

w2025-7030US_SeqList_041US1.TXT
SEQUENCE LISTING

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<120> PROTEIN CRYSTAL

<130> 041US1

<140> 10/540,612
<141> 2006-07-24

<150> PCT/IB03/06412
<151> 2003-12-24

<150> GB 0230177.8
<151> 2002-12-24

<160> 24

<170> PatentIn Ver. 3.3

<210> 1
<211> 461
<212> PRT
<213> Homo sapiens

<400> 1
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1 5 10 15
Gly Pro Pro Gln Pro Gly Ala Pro Ser Ser Ser Pro Thr Val Lys Glu
20 25 30
Glu Gly Pro Glu Pro Trp Pro Gly Gly Pro Asp Pro Asp Val Pro Gly
35 40 45
Thr Asp Glu Ala Ser Ser Ala Cys Ser Thr Asp Trp Val Ile Pro Asp
50 55 60
Pro Glu Glu Glu Pro Glu Arg Lys Arg Lys Lys Gly Pro Ala Pro Lys
65 70 75 80
Met Leu Gly His Glu Leu Cys Arg Val Cys Gly Asp Lys Ala Ser Gly
85 90 95
Phe His Tyr Asn Val Leu Ser Cys Glu Gly Cys Lys Gly Phe Phe Arg
100 105 110
Arg Ser Val Val Arg Gly Gly Ala Arg Arg Tyr Ala Cys Arg Gly Gly
115 120 125
Gly Thr Cys Gln Met Asp Ala Phe Met Arg Arg Lys Cys Gln Gln Cys
130 135 140
Arg Leu Arg Lys Cys Lys Glu Ala Gly Met Arg Glu Gln Cys Val Leu
145 150 155 160
Ser Glu Glu Gln Ile Arg Lys Lys Ile Arg Lys Gln Gln Gln Gln

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165

170

175

Glu Ser Gln Ser Gln Ser Gln Pro Val Gly Pro Gln Gly Ser Ser
 180 185 190

Ser Ser Ala Ser Gly Pro Gly Ala Ser Pro Gly Gly Ser Glu Ala Gly
 195 200 205

Ser Gln Gly Ser Gly Glu Gly Val Gln Leu Thr Ala Ala Gln
 210 215 220

Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln Leu Gln Cys Asn Lys
 225 230 235 240

Arg Ser Phe Ser Asp Gln Pro Lys Val Thr Pro Trp Pro Leu Gly Ala
 245 250 255

Asp Pro Gln Ser Arg Asp Ala Arg Gln Gln Arg Phe Ala His Phe Thr
 260 265 270

Glu Leu Ala Ile Ile Ser Val Gln Glu Ile Val Asp Phe Ala Lys Gln
 275 280 285

Val Pro Gly Phe Leu Gln Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu
 290 295 300

Lys Ala Ser Thr Ile Glu Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr
 305 310 315 320

Asn His Glu Thr Glu Cys Ile Thr Phe Leu Lys Asp Phe Thr Tyr Ser
 325 330 335

Lys Asp Asp Phe His Arg Ala Gly Leu Gln Val Glu Phe Ile Asn Pro
 340 345 350

Ile Phe Glu Phe Ser Arg Ala Met Arg Arg Leu Gly Leu Asp Asp Ala
 355 360 365

Glu Tyr Ala Leu Leu Ile Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro
 370 375 380

Asn Val Gln Glu Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val
 385 390 395 400

Glu Ala Leu Leu Ser Tyr Thr Arg Ile Lys Arg Pro Gln Asp Gln Leu
 405 410 415

Arg Phe Pro Arg Met Leu Met Lys Leu Val Ser Leu Arg Thr Leu Ser
 420 425 430

Ser Val His Ser Glu Gln Val Phe Ala Leu Arg Leu Gln Asp Lys Lys
 435 440 445

Leu Pro Pro Leu Leu Ser Glu Ile Trp Asp Val His Glu
 450 455 460

<210> 2

<211> 208

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 2
 Gly Ser His Met Gly Glu Gly Glu Gly Val Gln Leu Thr Ala Ala Gln
 1 5 10 15
 Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln Leu Gln Cys Asn Lys
 20 25 30
 Arg Ser Phe Ser Asp Gln Pro Lys Val Thr Pro Trp Pro Leu Gly Ala
 35 40 45
 Asp Pro Gln Ser Arg Asp Ala Arg Gln Gln Arg Phe Ala His Phe Thr
 50 55 60
 Glu Leu Ala Ile Ile Ser Val Gln Glu Ile Val Asp Phe Ala Lys Gln
 65 70 75 80
 Val Pro Gly Phe Leu Gln Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu
 85 90 95
 Lys Ala Ser Thr Ile Glu Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr
 100 105 110
 Asn His Glu Thr Glu Cys Ile Thr Phe Leu Lys Asp Phe Thr Tyr Ser
 115 120 125
 Lys Asp Asp Phe His Arg Ala Gly Leu Gln Val Glu Phe Ile Asn Pro
 130 135 140
 Ile Phe Glu Phe Ser Arg Ala Met Arg Arg Leu Gly Leu Asp Asp Ala
 145 150 155 160
 Glu Tyr Ala Leu Leu Ile Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro
 165 170 175
 Asn Val Gln Glu Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val
 180 185 190
 Glu Ala Leu Leu Ser Tyr Thr Arg Ile Lys Arg Pro Gln Asp Gln Leu
 195 200 205

<210> 3

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 3

Leu Thr Ala Ala Gln Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln
 1 5 10 15

Leu Gln Cys Asn Lys Arg Ser
 20

<210> 4

<211> 7

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<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 4
Pro Lys Val Thr Pro Trp Pro
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<210> 5
<211> 202
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 5
Ala Ala Ala Asp Ala Arg Gln Gln Arg Phe Ala His Phe Thr Glu Leu
1 5 10 15

Ala Ile Ile Ser Val Gln Glu Ile Val Asp Phe Ala Lys Gln Val Pro
20 25 30

Gly Phe Leu Gln Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu Lys Ala
35 40 45

Ser Thr Ile Glu Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr Asn His
50 55 60

Glu Thr Glu Cys Ile Thr Phe Leu Lys Asp Phe Thr Tyr Ser Lys Asp
65 70 75 80

Asp Phe His Arg Ala Gly Leu Gln Val Glu Phe Ile Asn Pro Ile Phe
85 90 95

Glu Phe Ser Arg Ala Met Arg Arg Leu Gly Leu Asp Asp Ala Glu Tyr
100 105 110

Ala Leu Leu Ile Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro Asn Val
115 120 125

Gln Glu Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val Glu Ala
130 135 140

Leu Leu Ser Tyr Thr Arg Ile Lys Arg Pro Gln Asp Gln Leu Arg Phe
145 150 155 160

Pro Arg Met Leu Met Lys Leu Val Ser Leu Arg Thr Leu Ser Ser Val
165 170 175

His Ser Glu Gln Val Phe Ala Leu Arg Leu Gln Asp Lys Lys Leu Pro
180 185 190

Pro Leu Leu Ser Glu Ile Trp Asp Val Ala
195 200

<210> 6

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<211> 241

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 6

Leu Thr Ala Ala Gln Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln
1 5 10 15

Leu Gln Cys Asn Lys Arg Ser Phe Ser Asp Gln Pro Lys Val Thr Pro
20 25 30

Trp Pro Leu Gly Ala Asp Pro Gln Ser Ala Asp Ala Arg Gln Gln Arg
35 40 45

Phe Ala His Phe Thr Glu Leu Ala Ile Ile Ser Val Gln Glu Ile Val
50 55 60

Asp Phe Ala Lys Gln Val Pro Gly Phe Leu Gln Leu Gly Arg Glu Asp
65 70 75 80

Gln Ile Ala Leu Leu Lys Ala Ser Thr Ile Glu Ile Met Leu Leu Glu
85 90 95

Thr Ala Arg Arg Tyr Asn His Glu Thr Glu Cys Ile Thr Phe Leu Lys
100 105 110

Asp Phe Thr Tyr Ser Lys Asp Asp Phe His Arg Ala Gly Leu Gln Val
115 120 125

Glu Phe Ile Asn Pro Ile Phe Glu Phe Ser Arg Ala Met Arg Arg Leu
130 135 140

Gly Leu Asp Asp Ala Glu Tyr Ala Leu Leu Ile Ala Ile Asn Ile Phe
145 150 155 160

Ser Ala Asp Arg Pro Asn Val Gln Glu Pro Gly Arg Val Glu Ala Leu
165 170 175

Gln Gln Pro Tyr Val Glu Ala Leu Leu Ser Tyr Thr Arg Ile Lys Arg
180 185 190

Pro Gln Asp Gln Leu Arg Phe Pro Arg Met Leu Met Lys Leu Val Ser
195 200 205

Leu Arg Thr Leu Ser Ser Val His Ser Glu Gln Val Phe Ala Leu Arg
210 215 220

Leu Gln Asp Lys Lys Leu Pro Pro Leu Leu Ser Glu Ile Trp Asp Val
225 230 235 240

Ala

<210> 7

<211> 33

<212> PRT

<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 7
Leu Thr Ala Ala Gln Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln
1 5 10 15
Leu Gln Cys Asn Lys Arg Ser Phe Ser Asp Gln Pro Lys Val Thr Pro
20 25 30

Trp

<210> 8
<211> 175
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 8
Arg Gln Gln Arg Phe Ala His Phe Thr Glu Leu Ala Ile Ile Ser Val
1 5 10 15
Gln Glu Ile Val Asp Phe Ala Lys Gln Val Pro Gly Phe Leu Gln Leu
20 25 30
Gly Arg Glu Asp Gln Ile Ala Leu Leu Lys Ala Ser Thr Ile Glu Ile
35 40 45
Met Leu Leu Glu Thr Ala Arg Arg Tyr Asn His Glu Thr Glu Cys Ile
50 55 60
Thr Phe Leu Lys Asp Phe Thr Tyr Ser Lys Asp Asp Phe His Arg Ala
65 70 75 80
Gly Leu Gln Val Glu Phe Ile Asn Pro Ile Phe Glu Phe Ser Arg Ala
85 90 95
Met Arg Arg Leu Gly Leu Asp Asp Ala Glu Tyr Ala Leu Leu Ile Ala
100 105 110
Ile Asn Ile Phe Ser Ala Asp Arg Pro Asn Val Gln Glu Pro Gly Arg
115 120 125
Val Glu Ala Leu Gln Gln Pro Tyr Val Glu Ala Leu Leu Ser Tyr Thr
130 135 140
Arg Ile Lys Arg Pro Gln Asp Gln Leu Arg Phe Pro Arg Met Leu Met
145 150 155 160
Lys Leu Val Ser Leu Arg Thr Leu Ser Ser Val His Ser Glu Gln
165 170 175

<210> 9
<211> 25
<212> PRT
<213> Artificial Sequence

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<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 9

Leu Thr Ala Ala Gln Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln
1 5 10 15

Leu Gln Cys Asn Lys Arg Ser Phe Ser
20 25

<210> 10

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 10

Lys Val Thr Pro Trp Pro Leu
1 5

<210> 11

<211> 182

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 11

Ala Arg Gln Gln Arg Phe Ala His Phe Thr Glu Leu Ala Ile Ile Ser
1 5 10 15

Val Gln Glu Ile Val Asp Phe Ala Lys Gln Val Pro Gly Phe Leu Gln
20 25 30

Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu Lys Ala Ser Thr Ile Glu
35 40 45

Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr Asn His Glu Thr Glu Cys
50 55 60

Ile Thr Phe Leu Lys Asp Phe Thr Tyr Ser Lys Asp Asp Phe His Arg
65 70 75 80

Ala Gly Leu Gln Val Glu Phe Ile Asn Pro Ile Phe Glu Phe Ser Arg
85 90 95

Ala Met Arg Arg Leu Gly Leu Asp Asp Ala Glu Tyr Ala Leu Leu Ile
100 105 110

Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro Asn Val Gln Glu Pro Gly
115 120 125

Arg Val Glu Ala Leu Gln Gln Pro Tyr Val Glu Ala Leu Leu Ser Tyr
130 135 140

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Thr Arg Ile Lys Arg Pro Gln Asp Gln Leu Arg Phe Pro Arg Met Leu
145 150 155 160
Met Lys Leu Val Ser Leu Arg Thr Leu Ser Ser Val His Ser Glu Gln
165 170 175
Val Phe Ala Leu Arg Leu
180

<210> 12
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 12
Lys Leu Pro Pro Leu Leu Ser Glu Ile Trp Asp Val Ala
1 5 10

<210> 13
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 13
Leu Thr Ala Ala Gln Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln
1 5 10 15

Leu Gln Cys Asn Lys Arg Ser Phe Ser Asp Gln Pro Lys Val Thr Pro
20 25 30

Trp Pro

<210> 14
<211> 198
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 14
Ala Asp Ala Arg Gln Gln Arg Phe Ala His Phe Thr Glu Leu Ala Ile
1 5 10 15

Ile Ser Val Gln Glu Ile Val Asp Phe Ala Lys Gln Val Pro Gly Phe
20 25 30

Leu Gln Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu Lys Ala Ser Thr
35 40 45

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Ile Glu Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr Asn His Glu Thr
50 55 60

Glu Cys Ile Thr Phe Leu Lys Asp Phe Thr Tyr Ser Lys Asp Asp Phe
65 70 75 80

His Arg Ala Gly Leu Gln Val Glu Phe Ile Asn Pro Ile Phe Glu Phe
85 90 95

Ser Arg Ala Met Arg Arg Leu Gly Leu Asp Asp Ala Glu Tyr Ala Leu
100 105 110

Leu Ile Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro Asn Val Gln Glu
115 120 125

Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val Glu Ala Leu Leu
130 135 140

Ser Tyr Thr Arg Ile Lys Arg Pro Gln Asp Gln Leu Arg Phe Pro Arg
145 150 155 160

Met Leu Met Lys Leu Val Ser Leu Arg Thr Leu Ser Ser Val His Ser
165 170 175

Glu Gln Val Phe Ala Leu Arg Leu Gln Asp Lys Lys Leu Pro Pro Leu
180 185 190

Leu Ser Glu Ile Trp Asp
195

<210> 15
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 15
Ala Leu Thr Ala Ala Gln Glu Leu Met Ile Gln Gln Leu Val Ala Ala
1 5 10 15

Gln Leu Gln Cys Asn Lys Arg Ser Phe Ser Asp Gln Pro Lys Val Thr
20 25 30

Pro Trp Pro Leu Gly Ala Asp Pro
35 40

<210> 16
<211> 198
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 16
Ala Asp Ala Arg Gln Gln Arg Phe Ala His Phe Thr Glu Leu Ala Ile
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1 5 10 15
Ile Ser Val Gln Glu Ile Val Asp Phe Ala Lys Gln Val Pro Gly Phe
20 25 30
Leu Gln Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu Lys Ala Ser Thr
35 40 45
Ile Glu Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr Asn His Glu Thr
50 55 60
Glu Cys Ile Thr Phe Ala Lys Asp Phe Thr Tyr Ser Lys Asp Asp Phe
65 70 75 80
His Arg Ala Gly Leu Gln Val Glu Phe Ile Asn Pro Ile Phe Glu Phe
85 90 95
Ser Arg Ala Met Arg Arg Leu Gly Leu Asp Asp Ala Glu Tyr Ala Leu
100 105 110
Leu Ile Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro Asn Val Gln Glu
115 120 125
Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val Glu Ala Leu Leu
130 135 140
Ser Tyr Thr Arg Ile Lys Arg Pro Gln Asp Gln Leu Arg Phe Pro Arg
145 150 155 160
Met Leu Met Lys Leu Val Ser Leu Arg Thr Leu Ser Ser Val His Ser
165 170 175
Glu Gln Val Phe Ala Leu Arg Leu Gln Asp Lys Lys Leu Pro Pro Leu
180 185 190
Leu Ser Glu Ile Trp Asp
195

<210> 17
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<400> 17
Leu Thr Ala Ala Gln Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln
1 5 10 15
Leu Gln Cys Asn Lys Arg Ser Phe
20

<210> 18
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
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construct

<400> 18
Lys Val Thr Pro Trp Pro Ala
1 5

<210> 19
<211> 200
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 19
Gln Ser Arg Asp Ala Arg Gln Gln Arg Phe Ala His Phe Thr Glu Leu
1 5 10 15
Ala Ile Ile Ser Val Gln Glu Ile Val Asp Phe Ala Lys Gln Val Pro
20 25 30
Gly Phe Leu Gln Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu Lys Ala
35 40 45
Ser Thr Ile Glu Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr Asn His
50 55 60
Glu Thr Glu Cys Ile Thr Phe Leu Lys Asp Phe Thr Tyr Ser Lys Asp
65 70 75 80
Asp Phe His Arg Ala Gly Leu Gln Val Glu Phe Ile Asn Pro Ile Phe
85 90 95
Glu Phe Ser Arg Ala Met Arg Arg Leu Gly Leu Asp Asp Ala Glu Tyr
100 105 110
Ala Leu Leu Ile Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro Asn Val
115 120 125
Gln Glu Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val Glu Ala
130 135 140
Leu Leu Ser Tyr Thr Arg Ile Lys Arg Pro Gln Asp Gln Leu Arg Phe
145 150 155 160
Pro Arg Met Leu Met Lys Leu Val Ser Leu Arg Thr Leu Ser Ser Val
165 170 175
His Ser Glu Gln Val Phe Ala Leu Arg Leu Gln Asp Lys Lys Leu Pro
180 185 190
Pro Leu Leu Ser Glu Ile Trp Asp
195 200

<210> 20
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<212> PRT
<213> Artificial Sequence

<220>

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<223> Description of Artificial Sequence: Synthetic construct

<400> 20
Val Thr Pro Trp
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<210> 21
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<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 21
Ala Ala Asp Ala Arg Gln Gln Arg Phe Ala His Phe Thr Glu Leu Ala
1 5 10 15
Ile Ile Ser Val Gln Glu Ile Val Asp Phe Ala Lys Gln Val Pro Gly
20 25 30
Phe Leu Gln Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu Lys Ala Ser
35 40 45
Thr Ile Glu Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr Asn His Glu
50 55 60
Thr Glu Cys Ile Thr Ala
65 70

<210> 22
<211> 111
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 22
Phe Thr Tyr Ser Lys Asp Asp Phe His Arg Ala Gly Leu Gln Val Glu
1 5 10 15
Phe Ile Asn Pro Ile Phe Glu Phe Ser Arg Ala Met Arg Arg Leu Gly
20 25 30
Leu Asp Asp Ala Glu Tyr Ala Leu Leu Ile Ala Ile Asn Ile Phe Ser
35 40 45
Ala Asp Arg Pro Asn Val Gln Glu Pro Gly Arg Val Glu Ala Leu Gln
50 55 60
Gln Pro Tyr Val Glu Ala Leu Leu Ser Tyr Thr Arg Ile Lys Arg Pro
65 70 75 80
Gln Asp Gln Leu Arg Phe Pro Arg Met Leu Met Lys Leu Val Ser Leu
85 90 95
Arg Thr Leu Ser Ser Val His Ser Glu Gln Val Phe Ala Leu Arg

100

105

110

<210> 23
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 23
Lys Leu Pro Pro Leu Leu Ser Glu Ile Trp Asp
1 5 10

<210> 24
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic 6xHis tag

<400> 24
His His His His His His
1 5